

UK Patent Application

(19) GB

2 218 354 A

(43) Date of A publication 15.11.1989

(21) Application No 8802446.8

(22) Date of filing 04.02.1988

(71) Applicant

Abraam Riad Ghobrial
25 Dunsfold Court, Blackbush Close, Sutton, Surrey
SM2 6BD, United Kingdom

(72) Inventor

Abraam Riad Ghobrial

(74) Agent and/or Address for Service

Abraam Riad Ghobrial
25 Dunsfold Court, Blackbush Close, Sutton, Surrey
SM2 6BD, United Kingdom

(51) INT CL
B01D 50/00 46/00 53/00

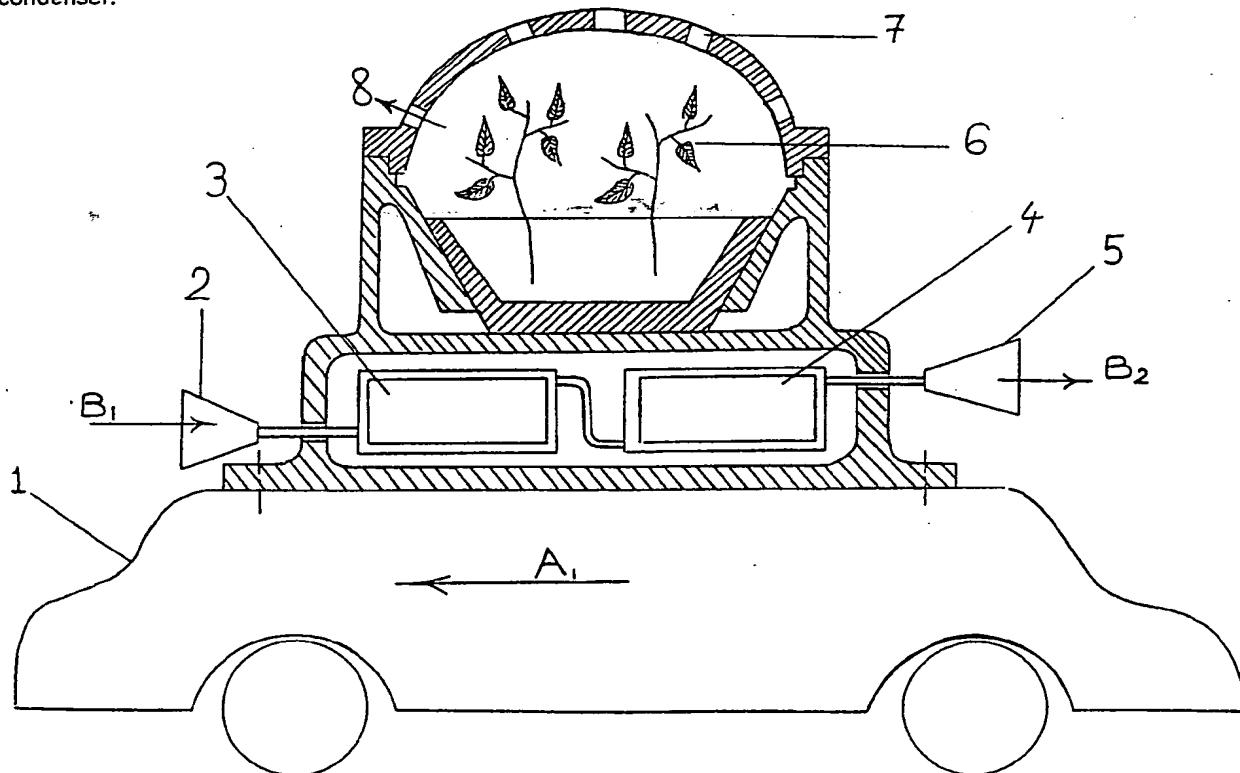
(52) UK CL (Edition J)
B1T TNBA TNRU
U1S S1272

(56) Documents cited
GB 1281247 A EP 0196287 A1 EP 0162022 A2

(58) Field of search
UK CL (Edition J) B1T TNAA TNBA TNRU
INT CL B01D 50/00, B60H 3/00-3/06

(54) Air cleaner

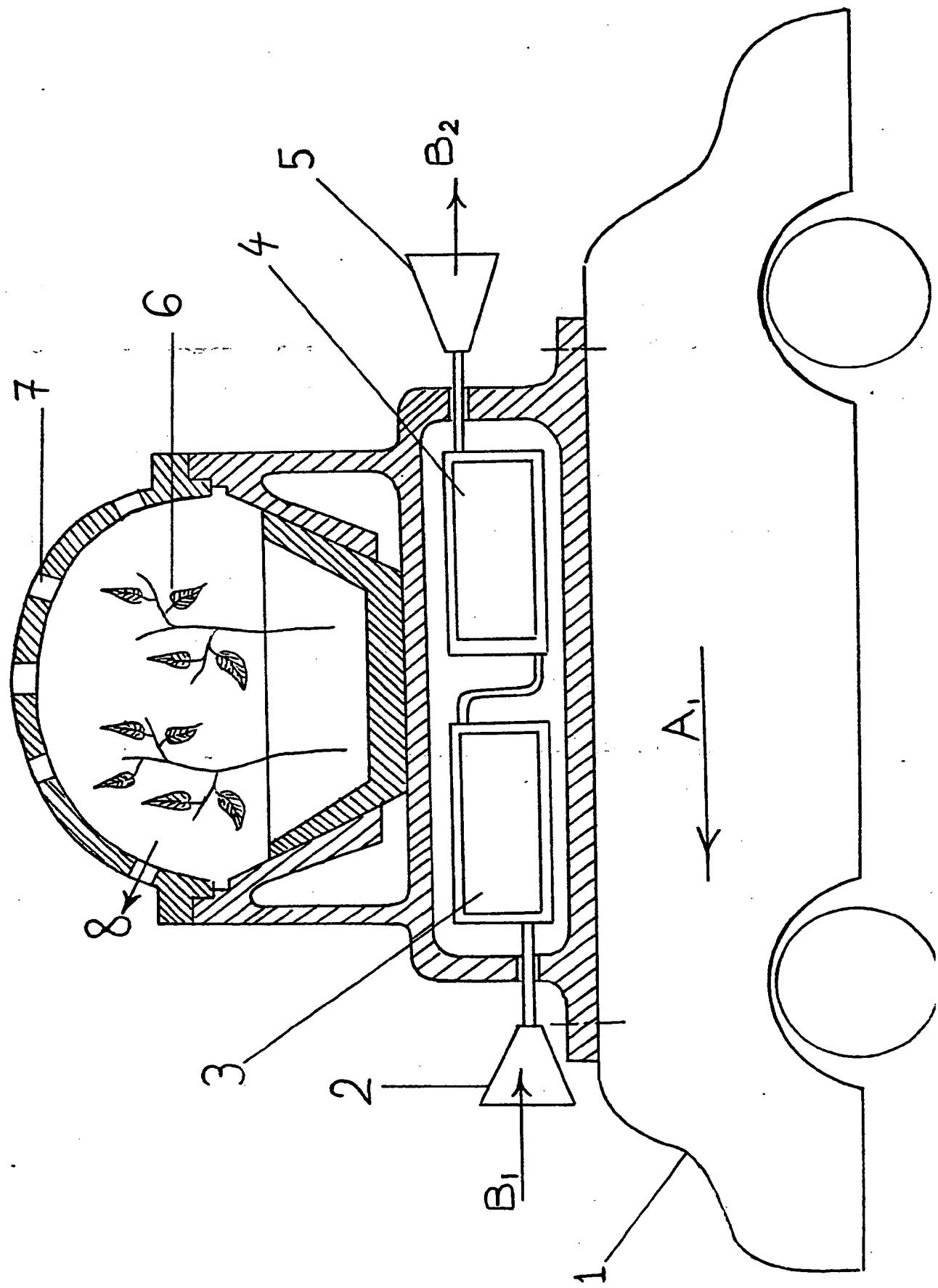
(57) A vehicle such as a car, train or bus carries means which purifies the atmospheric air through which the vehicle moves. This means comprises a particle filter 3 and a gaseous pollutant filter 4 arranged in series between inlet and outlet funnels 2,5, and a container enclosing growing plants 6 which discharge oxygen through holes 7. Filter 3 may be a mechanical filter, an inertial separator, a scrubber or an electrostatic precipitator. Filter 4 may be an absorption or adsorption filter or a condenser.



The claims were filed later than the filing date within the period prescribed by Rule 25 (1) of the Patents Rules 1982.

At least one of these pages has been prepared from an original which was unsuitable for direct photoreproduction.

2218354



2218354

The Air Cleaner

This invention relates to the field of air pollution.

It is known that the world presently is very concerned with air pollution.

Air pollution has fatal effects on plants, animals, and humans.

It is known that there are already some devices being used to control the level of the pollutants before they are released to the atmosphere.

But we still need an invention to purify the atmospheric air after being spoiled with pollutants.

The present invention acts as a cleaning aid to help the atmospheric air get rid of pollutants.

Actually: The present invention acts as a sweeper to sweep pollutants away of the atmospheric air to leave the atmospheric air clean and healthy.

By way of analogy: Like the broom moves to sweep dust and rubbish to make the floor clean, also; the air cleaner will move penetrating atmosphere to sweep pollutants, and to make the atmosphere clean and healthy.

The air cleaner will do the following jobs:

- (a) Removing particulate matter from the atmospheric air.
- (b) Removing gaseous pollutants from the atmospheric air.
- (c) Releasing Oxygen " O_2 " to atmosphere.

The removal of particulate matter will be done by the use of one or more of the following aids or by the use of any other means:

filters, electrostatic precipitators, inertial collectors, scrubbers.

The removal of gaseous pollutants will be done by the use of one or more of the following aids or by the use of any other means.

absorption devices, adsorption devices, condensers.

The release of oxygen " O_2 " will be obtained from green plants as a result of photosynthesis.

To get the sweeping effect, the air cleaner will move. Moving can be obtained by the use of any suitable moving aid. For example: a car, a train, a bus, or any other moving aid.

Now; I will describe the invention by way of example with reference to the accompanying drawing.

Referring to the drawing: the air cleaner comprises a moving aid 1 which can be a car, a train, a bus, or any other moving aid. This item 1 is very important item because the air-cleaner depends in its job on moving everywhere to sweep and collect pollutants from the atmospheric air.

When the moving aid 1 moves in the direction of the arrow A₁ then the atmospheric air containing pollutants will enter the funnel 2 in the direction of the arrow B₁. Then the air passes the removal aid of particulate matter 3 and after that passes the removal aid of gaseous pollutants 4, and finally passes the funnel 5 to the atmosphere in the direction B₂ as a clean air after leaving particulate matter at 3² and after leaving gaseous pollutants at 4.

The green plants 6 will help to add oxygen to atmosphere during the process of photosynthesis.

Oxygen will flow to atmosphere through the holes 7 in the direction of the arrow 8.

Claims

1. The air cleaner acting as an air sweeper, sweeping pollutants away of the atmospheric air to leave the atmospheric air clean and healthy, comprising means for the removal of particulate matter, means or the removal of gaseous pollutants, means to release oxygen "O₂" to atmosphere, means for getting the moving action, means for letting the atmospheric air in, and means for letting the clean air out.
2. The air cleaner as claimed in claim 1 comprising an inlet funnel as an entrance for the atmospheric air which contains pollutants.
3. The air cleaner as claimed in previous claims comprising an outlet funnel for letting the clean air out into the atmosphere.
4. The air cleaner as claimed in previous claims comprising one or more of the following aids or similar aids: filters, electrostatic precipitators, inertial collectors, scrubbers.
5. The air cleaner as claimed in previous claims comprising one or more of the following aids or similar aids: absorption devices, adsorption devices, condensers.
6. The air cleaner as claimed in previous claims comprising green plants for the release of oxygen "O₂".
7. The air cleaner as claimed in previous claims comprising a car, or a train, or a bus, or any other moving aid.
8. The air cleaner as claimed in previous claims comprising more than one hole as an outlet for oxygen "O₂" to atmosphere.
9. The air cleaner as claimed in previous claims comprising fixing means to fasten the moving aid with the rest of the air-cleaner, for example: bolts.
10. The air cleaner as claimed in previous claims comprising connecting paths between the inlet funnel, the removal aids of gaseous pollutants, the removal aids of particulate matter, and the outlet funnel.
11. The air cleaner as described here in with reference to the accompanying drawing.

THIS PAGE BLANK (USPTO)